

## FIG. 2

		2/7	
	→ MF	/ MF	MF
5 5	#4	9	#16
,± +		#12 #16	#12
i+1 12	#3	#	
i+13	#5	#14	#5
i+9 i+10 i+11 i+12 i+13 i+14 i+15 9 10 11 12 13 14 15	#1	#13	#11 #12 #13
<del>+</del>	#4	#10 #11 #15	#15
i+10 10	#3	#11	#11
6 <u>+</u> 6	#5	#10	#5
<u>.+</u> &	#1	6#	6#
<u>7</u> +1	#4	8#	8#
9+!	#3	<i>L#</i>	<b>L</b> #
i+5 5	#5	9#	#5
i 4 4	#1	42	42
; 3	#4	#4	#4
i+2 2	#3	#3	#3
<u>:</u>	#5	#2	#2
·- 0	#	#	#
OCh superframe # MFI	Useful signal # 2.5G->10G	Useful signal # 2.5G→40G	Useful signal # a x 2.5G+ b x 10G → 40G

2.5G 10G 2.5G 2.5G 2.5G 10G 2.5G 2.5G 10G 2.5G 2.5G 2.5G 10G 2.5G 2.5G

 $12 \times 2.56 + 1 \times 106 \rightarrow 406$ 

								3	3/7 •	lo Sprollol	rows							
		Useful signal #	Useful signal #1	Useful signal #2	Useful signal #3	Useful signal #4	Useful signal #1	Useful signal #2	Useful signal #3	Useful signal #4	Useful signal #1	Useful signal #2	Useful signal #3	Useful signal #4	Useful signal #1	Useful signal #2	Useful signal #3	Useful signal #4
		9	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
		2	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
	SPE	4	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP.	RP
FIG 3	j	က	RP	RP PP	RP	RP	RP	쮼	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
14	-	2	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP
	Ю	-		<b>.</b>		OCh-POH bytes with	regular meaning		1		Stuff control management	information	Useful signal #1 $(i \in [1  4])$ as a function	of the MFI 104	Negative stuff locations (-)	(4 bytes)	Useful signal #i /i = [1 41) as a fillic	of the MFI
		n/row	X3 1	X3 2	X3_3	X3 4	X3 5	X3_6	X3_7	X3_8	X3_9	X3_10	X3_11	X3_12	X3_13	X3 14	X3_15	X3_16
		OCh column/row	•	5	က	4	. rc	9	7	<b>∞</b>	6	10	=	12	13	14	15	16

								4/		امالمتوم	השומו ליים בסיים	200						
		Useful signal #	Useful signal #1	Useful signal #2	Useful signal #3	Useful signal #4	Useful signal #5	Useful signal #6	Useful signal #7	Useful signal #8 🛚	Useful signal #9	Useful signal #10	Useful signal #11	Useful signal #12	Useful signal #13	Useful signal #14	Useful signal #15	Useful signal #16∫
		9	RP	RP	RP 1	RP	RP	RP	RP	RP	RP							
		5	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP							
	SPE	4	(+)RP (	(+)RP   (	(+)RP   (	(+)RP   (	(+)RP (	(+)RP (	(+)RP (	(+)RP	(+)RP (	(+)RP   (	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP
FIG A	۲ خ	က	(+)RP (	(+)RP   (	(+)RP (	(+)RP (	(+)RP (	(+)RP   (	(+)RP (	(+)RP (	(+)RP (	(+)RP   (	(+)RP (	(+)RP (	(+)RP	(+)RP	+)RP	(+)RP
F		2	(+)RP (	(+)RP (	(+)RP (	(+)RP (	(+)RP (	(+)RP	(+)RP	(+)RP (	(+)RP							
	НО	-				with	regular meaning			<b>I</b>	gement		nction	of the MFI 104	Negative stuff locations (-)	105		
		n/row	X3_1	X3 2	X3_3	X3_4	X3 5	X3_6	X3_7	X3_8	X3_9	X3_10	X3_11	X3_12	X3_13	X3_14	X3_15	X3_16
		OCh column/row	-	2	က	4	5	9	7	∞	6	10	=	12	13	14	15	16

								4	5/7	16   6   6   7	parallel	SM01						
	Useful signal #	( +#	Useiui sigiiai #1	Useful signal #2	Useful signal #3	Useful signal #4	Useful signal #5	Useful signal #6	Useful signal #7	Useful signal #8	Useful signal #9	Useful signal #10	Useful signal #11	Useful signal #12	Useful signal #13	Useful signal #14	Useful signal #15	Useful signal #16
	9		귀	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
	5	001.7	אח(+)	RP	(+)RP	(+)RP	(+)RP	RP	(+)RP	(+)RP	(+)RP	RP	(+)RP	(+)RP	(+)RP	RP	(+)RP	(+)RP
ADF.	$\frac{2}{3}$	001.7	(+)uL	RP	(+)RP	(+)RP	(+)RP	RP	(+)RP	(+)RP	(+)RP	RP	(+)RP	(+)RP	(+)RP	쮼	(+)RP	(+)RP
FIG. 5	co	001.)	(+) L	RP	(+)RP	(+)RP	(+)RP	RP	(+)RP	(+)RP	(+)RP	RP	(+)RP	(+)RP	(+)RP	A B	(+)RP	(+)RP
F	2		אח(+)	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	(+)RP	_	(+)RP	(+)RP	(+)RP
HO	· -					OCh-POH bytes with	regular maariing				Stuff control management	information	Userul signal #I (i = [1 16]) as a function	ン	Negative	(4 bytes)	Uselul siglial #1 (i=∈[116]) as a fun	of the MFI
	n/row	-	×	X3_2	X3_3	X3_4	X3_5	X3_6	X3_7	X3_8	X3_9	X3_10	X3_11	X3_12	X3_13	X3_14	X3_15	X3_16
	OCh column/row	7	_	2	က	4	5	9	7	<b>&amp;</b>	6	9	=	12	13	14	15	16

FIG. 6

			_		T	7
0			$R_3$	$R_2$	$R_{1}$	$R_0$
-	J.		R <sub>7</sub>	$R_{6}$	R <sub>5</sub>	$R_4$
2	RAE		R <sub>11</sub>	$R_{10}$	R <sub>9</sub>	R <sub>8</sub>
က			$R_{15}$	R <sub>14</sub>	$R_{13}$	$R_{12}$
4	SAI		S3	S <sub>2</sub>	S <sub>1</sub>	$S_0$
5	EDC		E <sub>3</sub>	E <sub>2</sub>	Ę	$E_0$
9	CRA	EDC	<sup>L</sup> O	ပိ	$E_{\!5}$	E <sub>4</sub>
7	MFI	CRA	$M_3$	$M_2$	M <sub>1</sub>	$M_0$
Bit #			Byte # X3_9	Byte # X3_10	Byte # X3_11	Byte # X3_12

FIG. 7

FIG. 8

Position	9	4	3	2	-	0
Meaning	N	MFI	CRA	Protec	Protective information bits	mation
HC	$M_2$	$M_0$	$C_1$	E <sub>5</sub>	E <sub>2</sub>	$\mathbf{E}_0$

F1G. 9

Bit #	15	14	15 14 13 12 11 10 9 8	12	1	10	6		7	9	5	4	3	2	-	0
Meaning	Parity	rity				<b>8</b>	ate n	natcl	ning	exte	ısior	Rate matching extension RAE	ш			
	P1	$P_0$	P <sub>0</sub> R <sub>13</sub> R <sub>12</sub> R <sub>11</sub> R <sub>10</sub> R <sub>9</sub>	R <sub>12</sub>	R <sub>41</sub>	R <sub>10</sub>	$R_9$	$_{8}^{R}$	$R_7$	$R_6$	$R_5$	R <sub>8</sub> R <sub>7</sub> R <sub>6</sub> R <sub>5</sub> R <sub>4</sub> R <sub>3</sub> R <sub>2</sub> R <sub>1</sub> R <sub>0</sub>	$\mathbb{R}_{3}$	<del>گ</del> ے	Æ.	$_{0}^{R}$